

# **A Component Expansion of the Temperature-Dependent Saturation Magnetization of a Ferrimagnetic Fraction of Rocks**

Ibragimov S., Yasonov P., Denisov I.

*Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia*

---

## **Abstract**

A method proposed for the expansion into components of the temperature-dependent saturation magnetization  $I_s(T)$  of rock samples containing several ferrimagnetic phases is based on the assumption of the additive summation of the phase saturation magnetizations. The model dependencies describing experimental curves of  $I_s(T)$  are considered. The sampling technique was tested on samples with known ferrimagnetic composition. The method can be applied to quantitative analysis of a multiphase rock fraction.

---